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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604,896	08/25/2003	Jen-Yi Hu	ADTP0089USA	1895	
27765	7590 02/20/2004	02/20/2004		EXAMINER	
NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE)			NGUYEN, JOHN B		
	P.O. BOX 506 MERRIFIELD, VA 22116		ART UNIT	PAPER NUMBER	
			2819		
			DATE MAILED: 02/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/604,896	HU ET AL.				
Office Action Summary	Examiner	Art Unit				
	John B Nguyen	2819				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·	•				
2a) This action is FINAL . 2b) This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under to	Ex parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-8 is/are pending in the application.	4) Claim(s) 1-8 is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.	☑ Claim(s) <u>1-8</u> is/are rejected.					
7) Claim(s) is/are objected to.		,				
8) Claim(s) are subject to restriction and/c	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>25 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
2. Certified copies of the priority document	s have been received in Application	on No				
3. Copies of the certified copies of the prio	rity documents have been receive	d in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	•				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,,				



Art Unit: 2819

DETAILED ACTION

OATH or DECLARATION

1. The new Oath and Declaration is requested for replacement an original Oath and Declaration. Because the original Oath and Declaration is missing the date and the signature of the inventors.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-8 are rejected under 35 U.S.C. 102(a) as being anticipated by APPLICANT'S PRIOR ART.

3. Regarding to claim 5, APPLICANT'S PRIOR ART (Fig. 1) disclose A digital-to-analog converter (10) for transforming a digital voltage signal into an analog voltage signal, the digital-to analog converter comprising: a receiving circuit (12) for receiving the digital voltage signal (Digital Voltage Signal);

a plurality of digit circuits (14-19) electrically connected to the receiving circuit (12) for transforming the digital voltage signal into an analog voltage signal (Analog Voltage

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Signal) corresponding to the digital voltage signal, each digit circuit corresponding to a bit of the digital voltage signal (147 – Fourth bit; 18 – Fifth bit; ...); and

an output module (22) electrically connected to a digit circuit (14 – 19) that corresponds to a bit with least signal variation among the bits (14) of the digital voltage signal for outputting the transformed analog voltage signal, the output module comprising a loading resistor (24) for impedance matching.

- 4. Regarding to claim 6, The digital-to-analog converter of claim 5, wherein each digit circuit comprises a plurality of transistors (NMOS, PMOS).
- 5. Regarding to claim 7, The digital-to-analog converter of claim 5 being an R-string digital-to-analog converter (Fig. 1).
- 6. Regarding to claim 8, The digital-to-analog converter of claim 5 further comprising a reference circuit (20) electrically connected to the plurality of digit circuits (14 19) for providing a reference voltage for the plurality of digit circuits.
- 7. Regarding to method claims 1-4, the apparatus discussed above would perform the claims of method 1-4.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (See enclosed Form PTO-892).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B Nguyen whose telephone number (571) 272-1808. The examiner can normally be reached on 8AM-4: 30 PM M-F.

February 06, 2004